

Perforated non-woven for top sheet of nappies comprises microfibers with different hydrophobic properties fibrillated from sectored bicomponent filaments

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Abstract

A non-woven of 8-17 gm/m² consists of intermingled micro filaments of 0.05-0.40 dtex and pie-sector cross-section made of polymers with different hydrophobic properties. They are obtained by fibrillating bi-component filaments with alternate sector shaped components. The non-woven is perforated with holes (K) which are clear of fibers. The furthest distance of the edge of the land round each hole is no more than twice the minimum distance (h). The open hole area is 8-40%. Also claimed is the manufacturing process for such a non-woven using filaments with pie or hollow pie sectors of different composition that are fibrillated and intermingled by high pressure water jets. Subsequent perforation is also carried out by high pressure water jets.

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